

ADVANCED FM AND DAB/DAB+ RE-BROADCAST RECEIVER WITH IP AUDIO & MP3 BACKUP PLAYERS

The DB7008 Rebroadcast Receiver is a next-generation solution engineered to deliver high-precision FM and DAB/DAB+ signal reception, monitoring and continuous rebroadcasting within a single professional platform. Built on a powerful DSP architecture and advanced RF front end, it ensures reliable operation even under demanding broadcast conditions.

Thanks to the built-in monitoring system, upon DAB/DAB+ audio loss at the inputs, DB7008 will not only notify the maintenance staff, but will also automatically switch to a back-up FM Station. In case a fail of the FM station is detected, DB7008 will shift to the incorporated IP Stream, MP3/AAC back-up audio source player. It is essential that the back-up sources priority is user-defined. The audio files and playlists can be uploaded in the device's internal memory directly from your PC, via any FTP client. When the signal at the default input is restored, the DB7008 will automatically switch back to it. Depending on your preferences, several types of alarm notifications are utilized - E-mail, SNMP and SMS (via the optional GSM modem).

Operation is straightforward thanks to the intuitive front-panel interface, sharp OLED display and bright LED level meters. Remote management is fully supported through a responsive web interface compatible with desktop and mobile devices. Integrated SNMP, e-mail and GPO alarms ensure immediate notification of signal issues, making the DB7008 a dependable component in any professional broadcast infrastructure.

Reliable, versatile and engineered for precision, the DB7008 is well suited for broadcasters requiring uninterrupted service, accurate monitoring and metadata consistency across FM and DAB/DAB+ platforms.



FEATURES

- High-End Digital DAB/DAB+ Tuner
- ETSI EN 300 401 Compliant
- Program Associated Data (PAD) Support
- Full Information - Ensemble, Service, Subchannel, Metadata
- Automatic Display of Live PAD Information
- FM Band 87.1 - 108 MHz with Basic Spectrum Analyzer
- Up to 100 dBµV Direct RF Antenna Input
- Selectable Wide-Range IF Filter Bandwidth
- Fully DSP-Based Signal Processing
- Bright LED Bar Graph Meters for RF, MPX and Audio Levels
- Selectable De-emphasis
- Built-in Stereo Decoder
- RDS/RBDS Decoder with BER Meter
- Real-Time Audio Streaming for Remote Listening
- High-Stability RF Front End for Reliable Rebroadcasting
- Low-Noise, High-Quality Audio Output Paths for Re-Emission
- Configurable Backup Sources (FM ↔ DAB/DAB+)
- Automatic Source Switching with Adjustable Thresholds
- Protected Access to Device Settings
- Balanced Analog Audio Outputs (XLR) with Adjustable Level
- Professional AES/EBU Digital Output
- Headphone Output with Front-Panel Level Control
- SNTP for Automatic Clock Synchronization
- LAN Port for Full TCP/IP Remote Control and Monitoring
- Built-in Web & FTP Servers - no additional software required
- Easy-to-Use Web Interface - Apple & Android Device Support
- Min/Max Alarms for RF, DAB, SNR, CNR, MPX, RDS, L/R.
- Alarm Dispatch via E-mail, SNMP and Rear-Panel GPO Outputs
- Detailed Error and Status Logging
- Wide-Angle OLED Display for Instant Local Readout
- Intuitive Front-Panel Navigation with Soft Keys
- Accurate Front-Panel RF and Audio Metering
- Firmware Updates for Continuous Feature Improvements
- Restore Factory Parameters Option

SPECIFICATIONS

DAB/DAB+ Radio Input	
RF frequency range	168 - 240 MHz
DAB/DAB+	Band III Channels 5A - 13F
Sensitivity	18 dB μ V
Input connector	BNC 50 Ω
In compliance with	ETSI EN 300 401
Ensemble acquisition Time	940 ms
L&R Audio	1%, +5.0 to -50.0 dB, 0.1 dB resolution
DAB/DAB+ Radio Metering	
Quality indicators	RSSI, SNR, CNR, FIC Quality, FFT Offset
PAD	DLS, MOT
Metadata Displayed	Ensemble Label, Component List & ID, Service List & ID, Dynamic Label, PTY, Sample Rate, Bit Rate, Gain, Mode, Service Mode, Protection Info, Current CU & Address, Country, Language, Time & Date
FM Radio Input	
Tuning Range	87.1-108 MHz (CCIR)
Tuning Step	10, 20, 50, 100 kHz
Tuner Sensitivity	30 dB μ V
Antenna Ports	BNC Connector, 50 Ω
Antenna Ports Isolation	> 40 dB
Dynamic range	100 dB
FM Demod	
IF Filter Bandwidth	15 Increments (27kHz - 157kHz, Auto)
Dynamic range	90 dB
Stereo Decoder	
Frequency Response (L&R)	\pm 0.1 dB, 10 Hz to 15 kHz
SNR (Stereo)	60 dB, 50 μ s de-emphasis
THD	0.15% @ 1kHz, 0.4% from 10 Hz to 15 kHz, 50 μ s de-emphasis
Separation	50 dB, 50 Hz to 10 kHz, 50 μ s de-emphasis
Crosstalk	52 dB
Size and Weight	
Dimensions (W;H;D)	485 x 44 x 180 mm
Shipping Weight	540 x 115 x 300 mm / 2.700 kg

RDS Decoder	
Standards	European RDS CENELEC; United States RBDS NRSC
PI	Yes
PS	Yes
RT	Yes
FM Radio Metering	
RF Level	\pm 1 dB, 0 to 100 dB μ V
Audio	\pm 1 dB, +10.0 to -55.0 dB, 0.1 dB resolution
Outputs	
Composite	+12 dBu @ 75kHz, 75 Ω , unbalanced BNC Connector
Audio (L, R)	+6 dBu, 600 Ω , balanced XLR Connector
AES3 (L, R)	5.0 Vp-p, 110 Ω , balanced XLR Connector
SPDIF (L, R)	3.0 Vp-p, 110 Ω , unbalanced BNC Connector
Optical (L, R)	Transmitter, TOSLINK
Alarms	Programmable terminals on rear panel, optoisolated
Headphone	6,3mm (1/4") Phone Jack
Communication Interfaces	
Ethernet 10/100 Base-T	RJ45 Connector
Measurement Storage	
Storage	Build-in Memory Card
Data format	Text, CSV
Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level
Power	
Voltage	100-240V / 50-60 Hz
Power Consumption	20VA
Connector	IEC320, Fused and EMI-suppressed



WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS